BookletChartTM

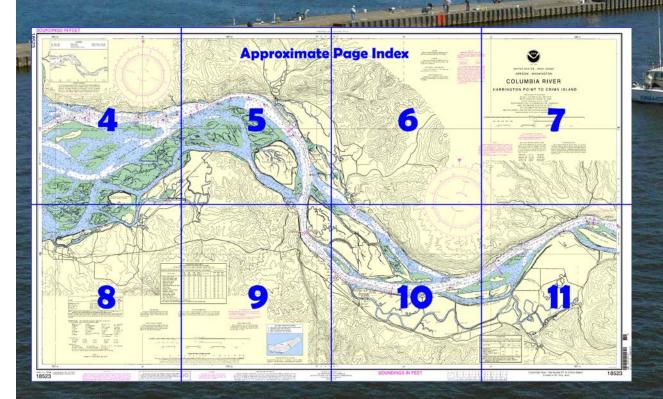
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Columbia River – Harrington Point to Crims Island NOAA Chart 18523

A reduced-scale NOAA nautical chart for small boaters When possible, use the full-size NOAA chart for navigation.



- Complete, reduced-scale nautical chart
- Print at home for free
- Convenient size
- Up-to-date with Notices to Mariners
- Compiled by NOAA's Office of Coast Survey, the nation's chartmaker



Published by the National Oceanic and Atmospheric Administration National Ocean Service Office of Coast Survey

<u>www.NauticalCharts.NOAA.gov</u> 888-990-NOAA

What are Nautical Charts?

Nautical charts are a fundamental tool of marine navigation. They show water depths, obstructions, buoys, other aids to navigation, and much more. The information is shown in a way that promotes safe and efficient navigation. Chart carriage is mandatory on the commercial ships that carry America's commerce. They are also used on every Navy and Coast Guard ship, fishing and passenger vessels, and are widely carried by recreational boaters.

What is a BookletChart[™]?

This BookletChart is made to help recreational boaters locate themselves on the water. It has been reduced in scale for convenience, but otherwise contains all the information of the full-scale nautical chart. The bar scales have also been reduced, and are accurate when used to measure distances in this BookletChart. See the Note at the bottom of page 5 for the reduction in scale applied to this chart.

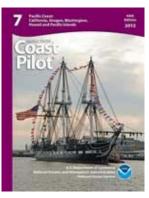
Whenever possible, use the official, full scale NOAA nautical chart for navigation. Nautical chart sales agents are listed on the Internet at http://www.NauticalCharts.NOAA.gov.

This BookletChart does NOT fulfill chart carriage requirements for regulated commercial vessels under Titles 33 and 44 of the Code of Federal Regulations.

Notice to Mariners Correction Status

This BookletChart has been updated for chart corrections published in the U.S. Coast Guard Local Notice to Mariners, the National Geospatial Intelligence Agency Weekly Notice to Mariners, and, where applicable, the Canadian Coast Guard Notice to Mariners. Additional chart corrections have been made by NOAA in advance of their publication in a Notice to Mariners. The last Notices to Mariners applied to this chart are listed in the Note at the bottom of page 7. Coast Pilot excerpts are not being corrected.

For latest Coast Pilot excerpt visit the Office of Coast Survey website at http://www.nauticalcharts.noaa.gov/nsd/searchbychart.php?chart=185 http://www.nauticalcharts.noaa.gov/nsd/searchbychart.php?chart=185 http://www.nauticalcharts.noaa.gov/nsd/searchbychart.php?chart=185 https://www.nauticalcharts.noaa.gov/nsd/searchbychart.php?chart=185 https://www.nauticalcharts.noaa.gov/nsd/searchbychart.php?chart=185 https://www.nauticalcharts.noaa.gov/nsd/searchbychart.php?chart=185 <a href="https://www.nauticalcharts.noaa.gov/nsd/searchbycharts.noaa



(Selected Excerpts from Coast Pilot)
Vessel Arrival Reports.—The Washington
State Department of Ecology requires
that all tank vessels, and certain cargo
and passenger vessels, submit an
Advanced Notice of Entry (ANE) Report
at least 24 hours prior to entering
Washington waters.

A Safety Report must be submitted with an Advance Notice of Entry, or, if the condition occurs after submittal of an ANE the Department must be notified immediately by phone or facsimile of the

condition. To inquire or submit vessel information, contact the Washington State Department of Ecology by calling 24 hours,

503-790-4868 (Columbia River and Grays Harbor) or 360-956-8378 (Strait of Juan de Fuca and Puget Sound). Facsimile Safety Reports should be sent to 1-800-664-9184 or 360-407-7288.

Cargo, passenger, fishing and tank vessels are subject to boarding by Washington State Department of Ecology inspectors when in port. Tank vessels are required to have a Tank Vessel Oil Spill Prevention Plan on file with Ecology or must obtain a waiver prior to entering Washington State waters. Washington State also has safe bunkering procedures that must be followed during fuel transfers. For more information contact Ecology by calling 24 hours, 503-790-4868 (Columbia River and Grays Harbor) or 360-956-8378 (Strait of Juan de Fuca and Puget Sound). **To report oil spills call 1-800-258-5990.**

Caution.—The volcanic eruptions of Mount Saint Helens in mid-1980 caused extensive flooding with resulting heavy siltation in the lower Columbia River. Large amounts of mud, logs, and other debris entered Columbia River from Cowlitz River, just E of Longview at Mile 59 (68). In late 1980, dredging was done in the aforementioned area, however, mariners are advised to use caution in the Columbia River and its tributaries. Self-propelled hopper dredges, dredge barges and pipeline dredges may be encountered throughout the transit from sea to Bonneville Dam. Mariners should contact these vessels on VHF-FM channel 13 to make passing arrangements, and navigate with due caution through these areas.

Between Harrington Point, Mile 20.5 (23.6), and Crims Island, Mile 47.5 (54.6), Columbia River main channel follows the N bank to Three Tree Point, thence swings around the bend, holding to the NE shore as far as Hunting Islands, where it swings along the S shore until off the SE end of Puget Island; thence it follows the N bank from Cape Horn past Abernathy Point and N of Crims Island and Gull Island.

Currents.—In this section (between **Harrington Point** and **Crims Island**) the current velocity is about 1 knot. Because of the river flow, which combines with the current, the upstream flow is weak or nonexistent and the downstream flow attains velocities of 2 to 3 knots.

Local magnetic disturbance.—Differences of as much as 3° from the normal variation have been observed along this section of the river. Steamboat Slough, NE of Price Island at Mile 29.3 (33.7) on the Washington side, and Elochoman Slough, on the E side of Hunting Islands at Mile 31.3 (36), are used by fishing boats, tugs, and for log storage. Gasoline and diesel fuel are available at Skamokawa just above the NW end of Steamboat Slough. A small marine railway, owned by a private packing firm, can be used if prior arrangements are made. In 2000, the controlling depth was 1 foot along the SE edge of the entrance channel (shoaling to bare across the remainder of the entrance) and in the channel bend off Skamokawa.

At Mile 35 (39.9), a power cable with a least clearance of 230 feet crosses the main channel to Puget Island. The tower on the E side of the channel on Puget Island is prominent.

Cathlamet Channel joins the main channel at Mile 32.3 (37.2) on the Washington side. It is used by fishing boats, tugs, log rafts, and barges, and for some log storage above the city of Cathlamet. A mooring basin is at Cathlamet with its entrance on Elochoman Slough; 190 berths (some with electricity), gasoline, diesel fuel, water, ice, wet and dry winter boat storage, a pumpout station, a launching ramp, and marine supplies are available. A fixed highway bridge crosses the channel from Cathlamet to Puget Island; the clearance is 75 feet for the N span.

U.S. Coast Guard Rescue Coordination Center 24 hour Regional Contact for Emergencies

RCC Seattle Commander

13th CG District (206) 220-7001 Seattle, WA

2

Prairie and Woody Island Channels are subject to frequent changes.

HEIGHTS

Heights in feet above Mean High Water.

The prudent mariner will not rely solely o ly single aid to navigation, particularly or pating aids. See U.S. Coast Guard Light Lis

Differences of as much as 3° from the norm riation have been observed along the section

AIDS TO NAVIGATION

Consult U.S. Coast Guard Light List for supplemental information concerning aids to navigation.

SUBMARINE PIPELINES AND CABLES

Charted submarine pipelines and submarine ables and submarine pipeline and cable areas

Cable Area

Additional uncharted submarine pipelines and submarine cables may exist within the area of this chart. Not all submarine pipelines and submarine cables are required to be buried, and those that were originally buried may have become exposed. Mariners should use extreme caution when operating vessels in depths of water comparable to their draft in areas where pipelines and cables may exist and when operating vessels. water comparable to their draft in aleas where inclines and cables may exist, and wher inchoring, dragging, or trawling. Covered wells may be marked by lighted o

CAUTION

Improved channels shown by broken lines are ubject to shoaling, particularly at the edges.

AUTHORITIES

Hydrography and topography by the National Ocean Service, Coast Survey, with additional data from the Corps of Engineers and U.S.

Coast Guard.

NOAA WEATHER RADIO BROADCASTS NOAW WEATHER RADIO BROADCASTS
The NOAD Weather Radio station listed below provides continuous weather broadcasts. The reception range is typically 20 to 40 nautical miles from the antenna site, but can be as much as 100 nautical miles for stations at nigh elevations.

Astoria, WA KEC-91 Neahaknie, OR WWF-94 Tillamock, OR WWF-95 Olympia, WA WXM-62 162.475 MHz 162.550 MHz Portland, OR KIG-98

CAUTION

Temporary changes or defects in aids to navigation are not indicated on this chart. See Local Notice to Mariners.

RADAR REFLECTORS

Radar reflectors have been placed on many floating aids to navigation. Individual radar reflector identification on these aids has been omitted from this chart.

WOODY ISLAND CHANNEL

Woody Island Channel is subject to continual change. Woody Island Channel Buoys 2, 4, & 5 are not charted because they are frequently shifted and are privately maintained.

Mileage distances along the Columbia River are n Statute Miles eastward from the mouth and are ndicated thus:

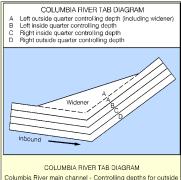
HORIZONTAL DATUM

The horizontal reference datum of this chart is North American Datum of 1983 (NAD 83), which for charting purposes is considered equivalent to the World Geodetic System of 1984 (WGS 84). Geographic positions referred to the North American Datum of 1927 must be corrected an average of 0.603" southward and 4.463" westward to agree with this chart.

Navigation regulations are published in Chapter 2, U.S. Coast Pilot. 7. Additions or revisions to Chapter 2 are pub shed in the Notice to Mariners. Information concerning the egulations may be obtained at the Office of the Commander 3th Coast Guard District in Seattle, Washington or at the

efer to charted regulation section numbers

Table of Selected Chart Notes



Columbia River main channel - Controlling depths for outside quarters include the adjacent widener/fillet when applicable.

POLLUTION REPORTS

Report all spills of oil and hazardous substances to the Nationa Response Center via 1-800-424-8802 (foil free), or to the nearest U.S Coast Guard facility if telephone communication is impossible (33 CFF 153).

SOURCE DIAGRAM

The outlined areas represent the limits of the most recent hydrographic survey information that has been evaluated for charting. Surveys have been banded in this diagram by date and type of survey. Channels maintained by the U.S. Army Corps of Engineers are periodically resurveyed and are not shown on this diagram. Refer to Chapter 1, United States Coast Pilot.

BEAVER SLOUGH/CLATSKANIE RIVER ABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO NOV 199 CONTROLLING DEPTHS FROM SEAWARD IN FEET AT COLUMBIA RIVER DATUM BEAVER SLOUGH/CLATSKANIE RIVER ENTRANCE TO THE MOUTH OF BEAVER DREDGE CUT THENCE TO HIGHWAY BRIDGE AT A1.0 11-98

A. MARINERS SHOULD OBTAIN LOCAL KNOWLEDGE BEFORE NAVIGATING THESE WATERWAYS DUE TO THE EXISTENCE OF NUMEROUS SHOAL AREAS. - CONSULT THE CORPS OF ENGINEERS FOR CHANGING CONDITIONS SUBSEQUENT TO THE ABOVE

A1.0

| TIDAL INFORMATION | | | | | |
|---|--|---|---|---|--|
| PLAC | Height referred to datum of soundings (MLLW) | | | | |
| NAME | (LAT/LONG) | Mean Higher High Water | Mean High Water | Mean Low Water | |
| Harrington Point, WA Cathlamet, WA Settlers Point, OR Wauna, OR Skamokawa, WA | (46°16' N/123°39' W) (46°12' N/123°23' W) (46°10' N/123°41' W) (46°10' N/123°24' W) (46°16' N/123°27' W) | feet 7.7 6.7 8.0 6.3 6.9 | feet 7.0 6.1 7.3 5.9 6.5 | feet 0.9 0.6 1.0 0.6 0.8 | |

NOTE: The diurnal range of the tide during low river stages is 6.9 ft at Three Tree Pt., 6.4 ft at Cathimet, and 5.5 ft at Eagle Cliff. The range becomes progressively smaller with higher stages of the river.

Dashes (---) located in datum columns indicate unavailable datum values for a tide station. Real-time water level tide predictions, and tidal current predictions are available on the Internet from http://tidesandourrents.noaa.gov.

Mercator Projection

Scale 1:40,000 at Lat 46°12'N North American Datum of 1983 (World Geodetic System 1984)

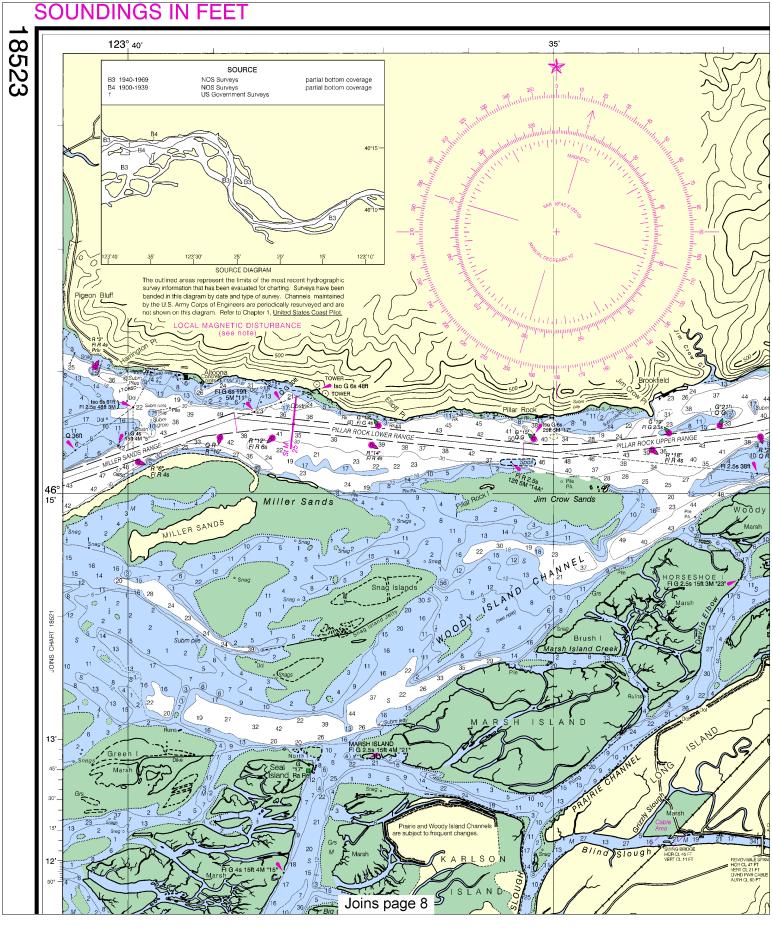
11-98

SOUNDINGS AND CLEARANCES OF BRIDGES AND OVERHEAD CABLES IN FEET AT COLUMBIA RIVER DATUM

(MEAN LOWER LOW WATER DURING LOWEST RIVER STAGES)

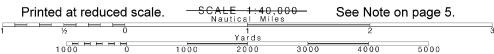
| COLUMBIA RIVER CHANNEL DEPTHS | | | | | | | | | |
|---|---------|---------|---------|---------|-----------|--------------------|---------|--------|--|
| PILLAR ROCK LOWER RANGE TO GULL ISLAND TURN AND CHANNEL | | | | | | | | | |
| TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF 21-Nov-12 | | | | | | | | | |
| CONTROLLING DEPTHS IN FEET AT COLUMBIA RIVER DATUM (CRD) * SEE FOOTNOTE | | | | | | PROJECT DIMENSIONS | | | |
| | Left | Left | Right | Right | Date | | Length | | |
| NAME OF CHANNEL | Outside | Inside | Inside | Outside | of | Width | STAT | Depth | |
| | Quarter | Quarter | Quarter | Quarter | Survey | (Feet) | (Miles) | (Feet) | |
| Miller Sands Range | 38 | 44 | 43 | 43 | 20-Nov-12 | 600 | 2.2 | 43 | |
| Pillar Rock Lower Range | 42 | 42 | 44 | 39 | 21-Nov-12 | 600 | 3 | 43 | |
| Pillar Rock Upper Range | 42 | 45 | 43 | 43 | 20-Sep-12 | 600 | 1.9 | 43 | |
| Welch Island Reach | 46 | 48 | 45 | 29 | 20-Sep-12 | 600 | 3.2 | 43 | |
| Skamokawa Channel | 42 | 44 | 44 | 38 | 16-Oct-12 | 600 | 3.3 | 43 | |
| Steamboat Reach | 46 | 48 | 45 | 44 | 24-Oct-12 | 600 | 1.4 | 43 | |
| Puget Island Range & Turn | 43 | 44 | 42 | 41 | 24-Oct-12 | 600 | 3.5 | 43 | |
| Wauna Range | 39 | 42 | 43 | 38 | 31-Oct-12 | 600 | 2 | 43 | |
| Driscoll Range | 40 | 43 | 41 | 43 | 31-Oct-12 | 600 | 1.7 | 43 | |
| Westport Turn & Range | 39 | 42 | 43 | 42 | 25-Oct-12 | 600 | 2 | 43 | |
| Westport Channel | 42 | 43 | 43 | 39 | 14-Nov-12 | 600 | 2.4 | 43 | |
| Eureka Lower Channel | 45 | 45 | 43 | 43 | 14-Nov-12 | 600 | 2.1 | 43 | |
| Eureka Upper Channel | 41 | 41 | 43 | 40 | 14-Nov-12 | 600 | 0.8 | 43 | |
| Oak Point Channel | 43 | 45 | 43 | 42 | 25-Sep-12 | 600 | 3 | 43 | |
| Gull Island Turn and Channel | 47 | 48 | 45 | 35 | 5-Nov-12 | 600 | 2.2 | 43 | |
| | | | | | | | | | |

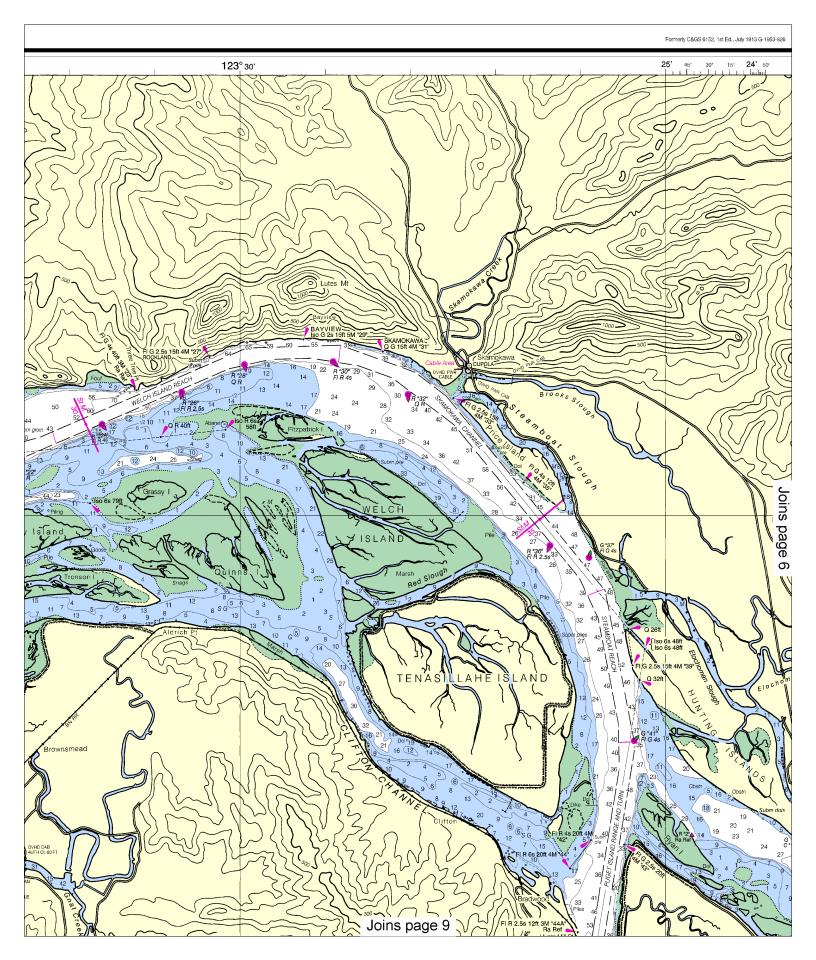
For Controlling Depth Information, consult the Local Notice to Mariners and/or the following Portland District US Army Corps of Engineers website: http://www.nwp.usace.army.mil/Missions/Navigation.aspx Channel status reports

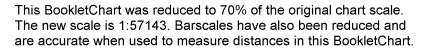


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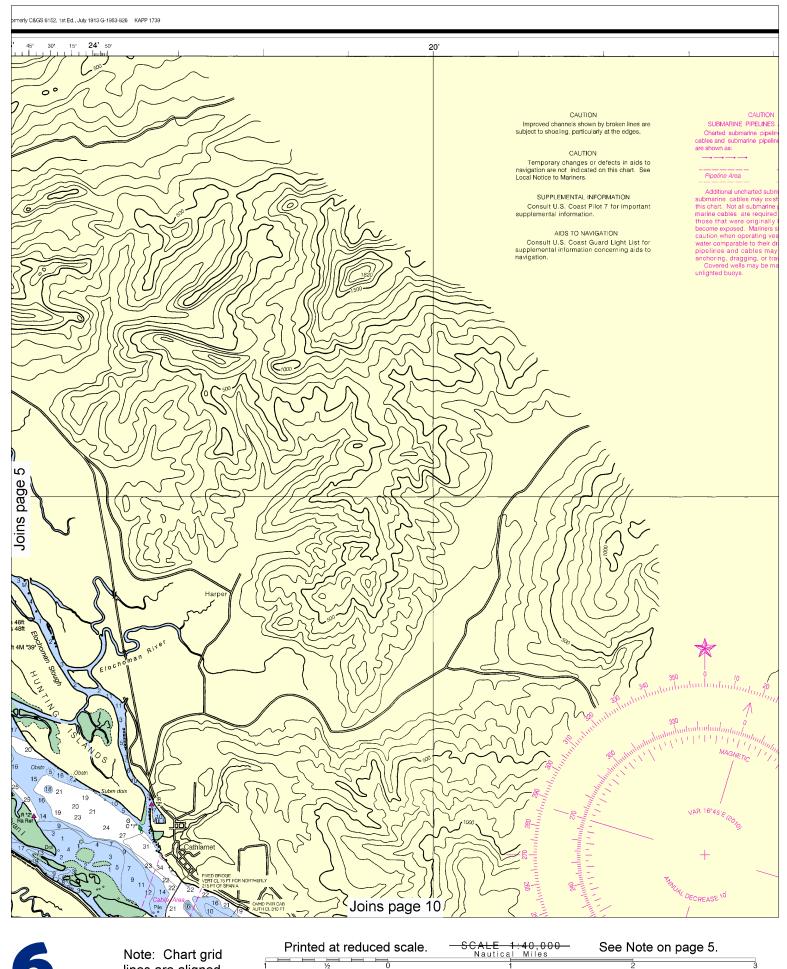
Note: Chart grid lines are aligned with true north.



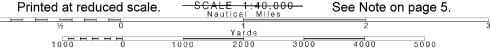


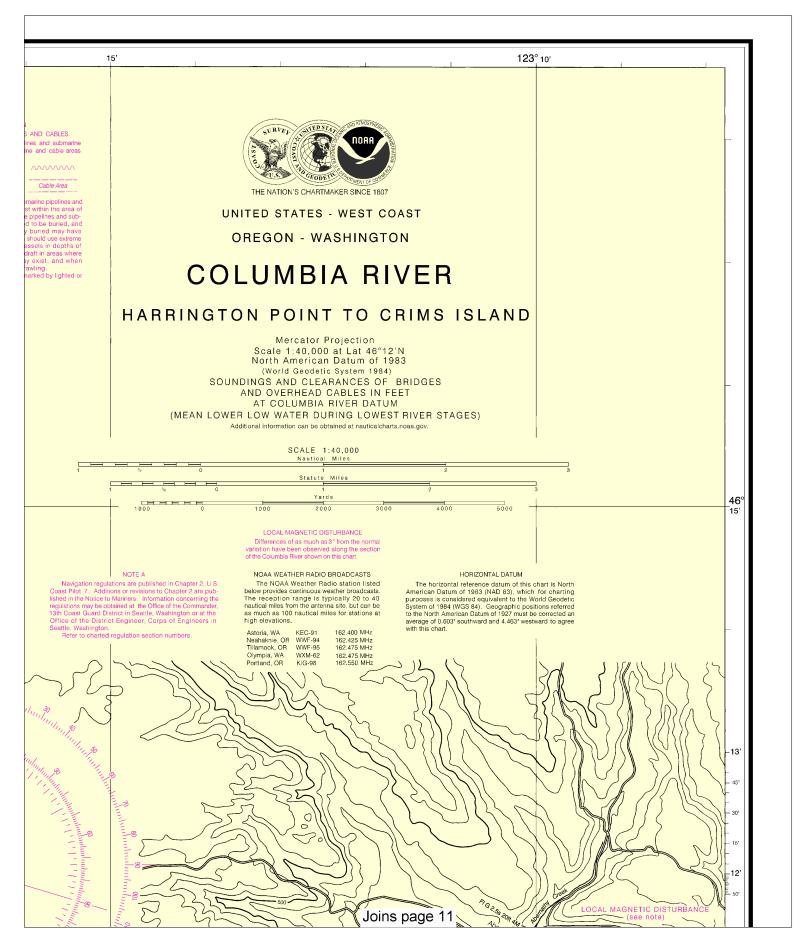




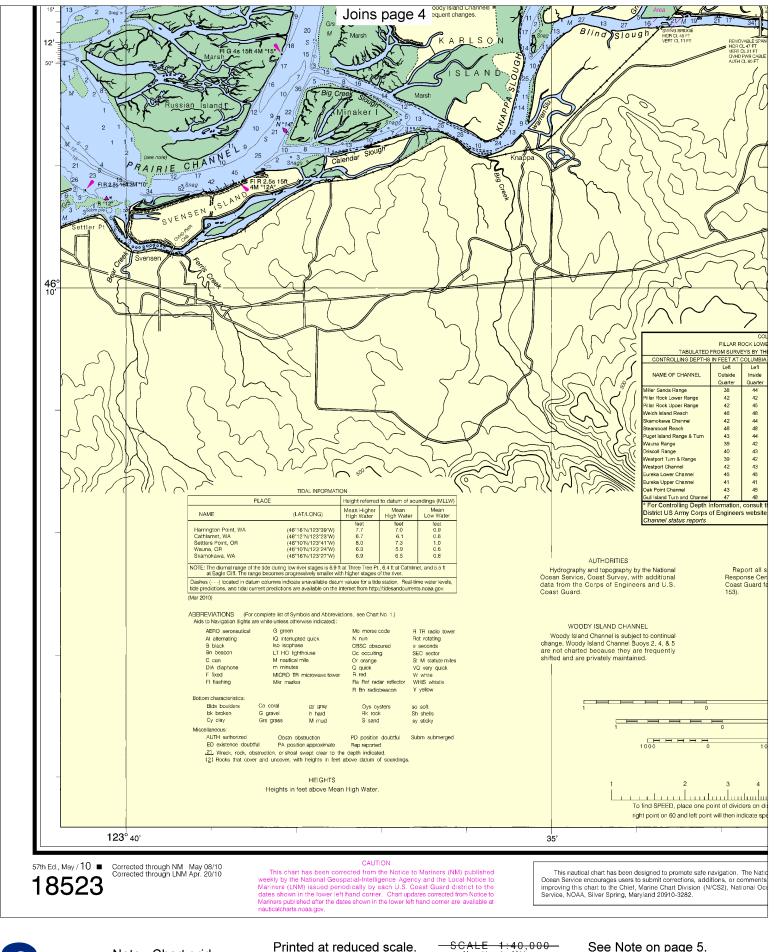


lines are aligned with true north.





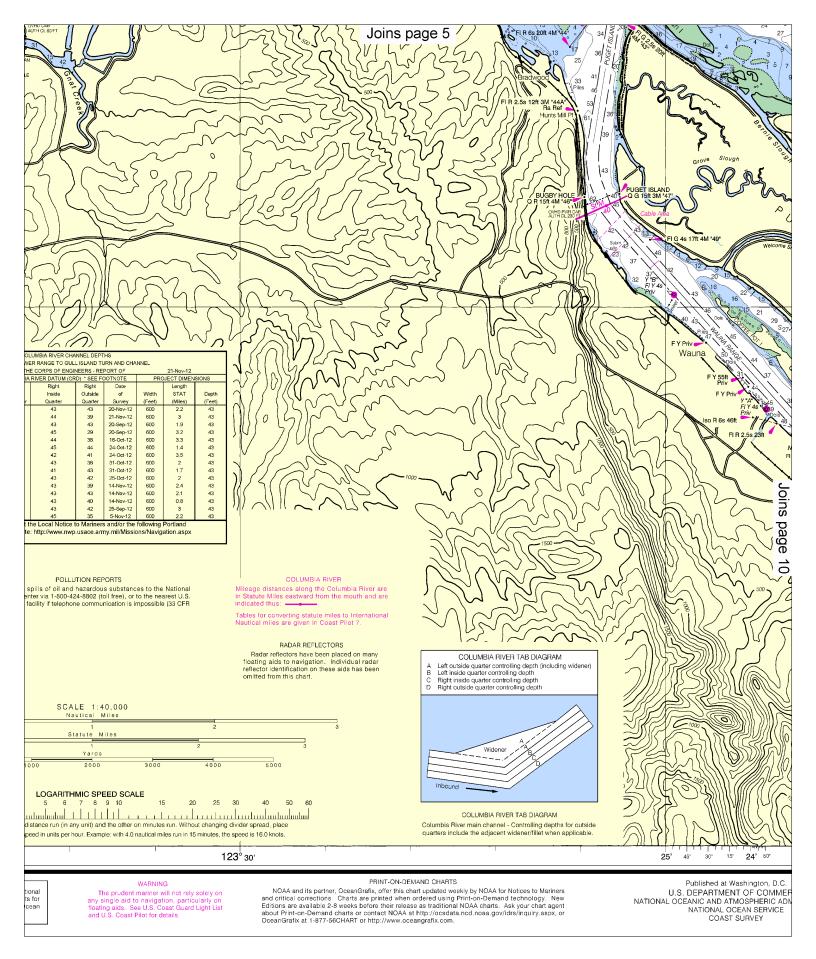
Canadian Coast Guard Notice to Mariners: 1012 10/26/2012.

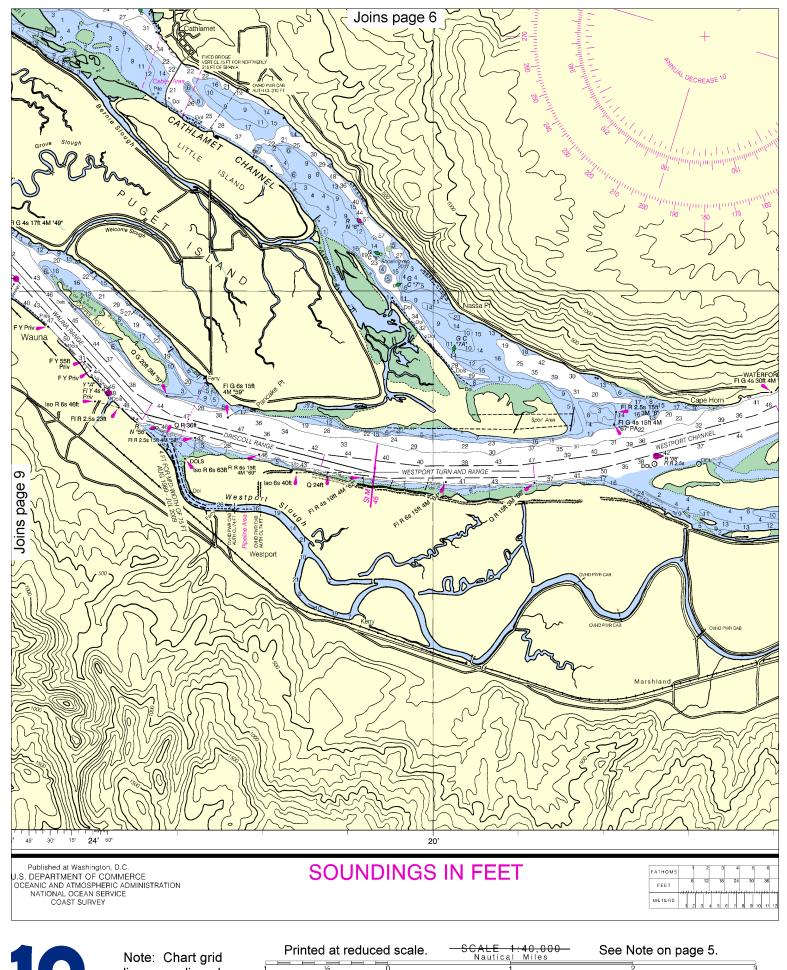




Note: Chart grid lines are aligned with true north.

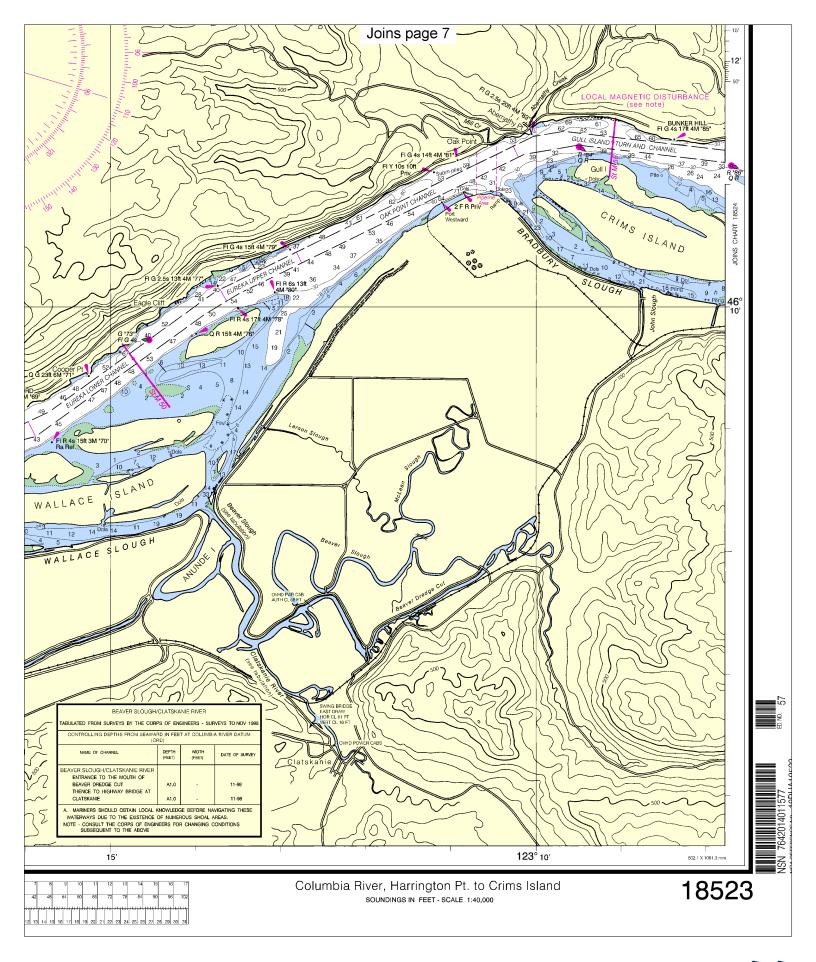






Note: Chart grid lines are aligned with true north.

| Printed at reduced scale. | | | | SCALE 1:40,000 Nautical Miles | | | See Note on page 5. | | |
|---------------------------|------|------|------|----------------------------------|------|------|---------------------|---|--|
| | | | | | | | | | |
| 1 | 1/2 | U | | 1 | | 2 | | 3 | |
| | | | | Yards | | | | | |
| | 1000 | 7 70 | 1000 | 2000 | 3000 | 4000 | 5000 | | |





VHF Marine Radio channels for use on the waterways:

Channel 6 – Inter-ship safety communications.

Channel 9 – Communications between boats and ship-to-coast.

Channel 13 – Navigation purposes at bridges, locks, and harbors.

Channel 16 – Emergency, distress and safety calls to Coast Guard and others, and to initiate calls to other

vessels. Contact the other vessel, agree to another channel, and then switch.

Channel 22A – Calls between the Coast Guard and the public. Severe weather warnings, hazards to navigation and safety warnings are broadcast here. Channels 68, 69, 71, 72 and 78A – Recreational boat channels.

Getting and Giving Help — Signal other boaters using visual distress signals (flares, orange flag, lights, arm signals); whistles; horns; and on your VHF radio. You are required by law to help boaters in trouble. Respond to distress signals, but do not endanger yourself.

Distress Call Procedures

- Make sure radio is on.
- Select Channel 16.
- Press/Hold the transmit button.
- Clearly say: "MAYDAY, MAYDAY, MAYDAY."
- Also give: Vessel Name and/or Description; Position and/or Location; Nature of

Emergency; Number of People on Board.

- · Release transmit button.
- Wait for 10 seconds If no response Repeat MAYDAY call.

HAVE ALL PERSONS PUT ON LIFE JACKETS!



NOAA Weather Radio All Hazards (NWR) is a nationwide network of radio stations broadcasting continuous weather information directly from the nearest National Weather Service office. NWR broadcasts official Weather Service warnings, watches, forecasts and other hazard information 24 hours a day, 7 days a week.

http://www.nws.noaa.gov/nwr/

Quick References

Nautical chart related products and information — http://www.nauticalcharts.noaa.gov

Online chart viewer — http://www.nauticalcharts.noaa.gov/mcd/NOAAChartViewer.html

Report a chart discrepancy — http://ocsdata.ncd.noaa.gov/idrs/discrepancy.aspx

Chart and chart related inquiries and comments — http://ocsdata.ncd.noaa.gov/idrs/inquiry.aspx?frompage=ContactUs

Chart updates (LNM and NM corrections) — http://www.nauticalcharts.noaa.gov/mcd/updates/LNM_NM.html

Coast Pilot online — http://www.nauticalcharts.noaa.gov/nsd/cpdownload.htm

Tides and Currents — http://tidesandcurrents.noaa.gov

Marine Forecasts — http://www.nws.noaa.gov/om/marine/home.htm

National Data Buoy Center — http://www.ndbc.noaa.gov/

NowCoast web portal for coastal conditions — http://www.nowcoast.noaa.gov/

National Weather Service — http://www.weather.gov/

National Hurrican Center — http://www.nhc.noaa.gov/

Pacific Tsunami Warning Center — http://ptwc.weather.gov/

Contact Us — http://www.nauticalcharts.noaa.gov/staff/contact.htm



For the latest news from Coast Survey, follow @nauticalcharts



This Booklet chart has been designed for duplex printing (printed on front and back of one sheet). If a duplex option is not available on your printer, you may print each sheet and arrange them back-to-back to allow for the proper layout when viewing.

